BASE + BALL = GAMES

G = 1

E + L = S

E + L = S + 10

E = S - L + 10

S + L = E

S + L = S - 1 + 10

S + L = S - 1 + 10

2L = 10

~~L = 5~~ L = 5

```
  BASE
+ BALL
------
 GAMES
```

Now,

E + L = S

S - E = L

S - E = 5

(S, E) = ~~(5, 10)~~ ~~(6, 1)~~

(7, 2) (9, 4)

(8, 3)

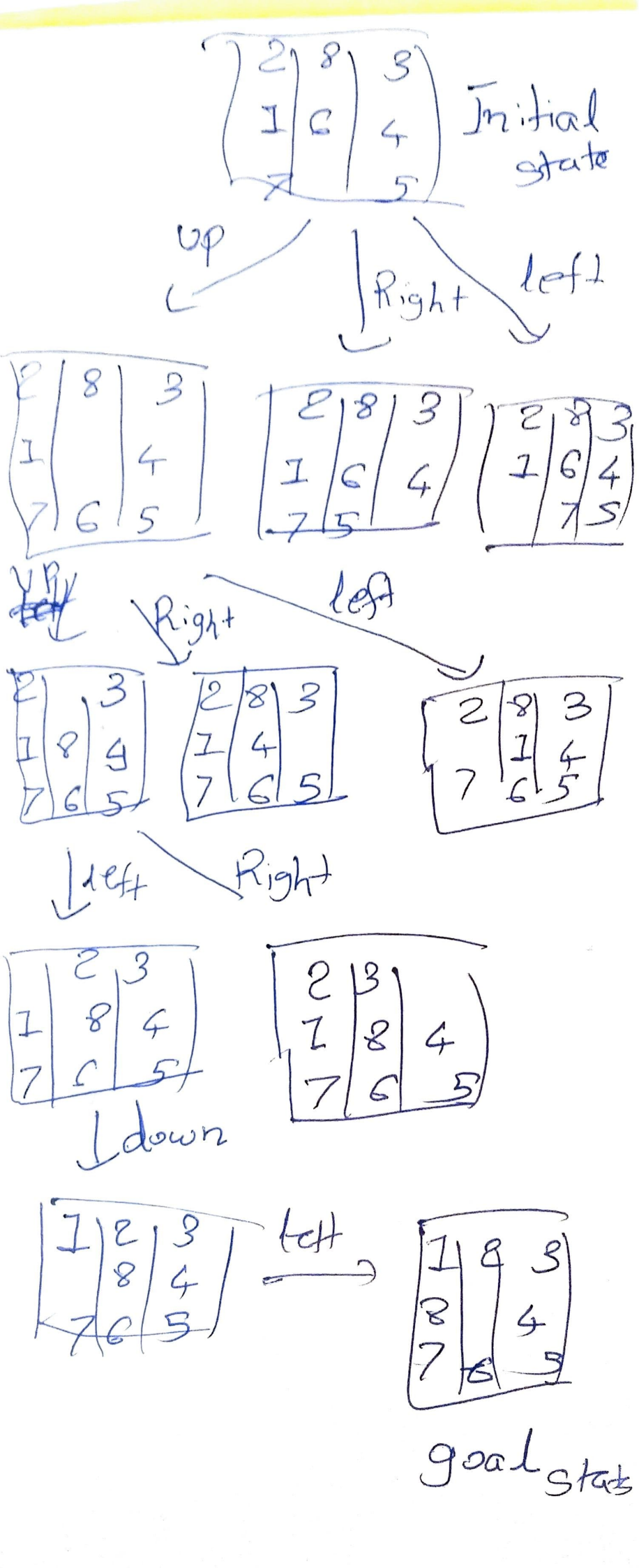
B + B = A + Carry

B = 5 ✗, 6, 7, 8, 9

let B = 7
(S, E) = (8, 3)
we get A = 4

	7	4	8	3
+	7	4	5	5
1	4	9	3	8

Final Answer


Initial state
up
Right
left
Right
left
left
Right
left
Right
down
left
goal state

Predicate logic form

1 $\forall x$: games(x) :
likes(Sachin, x)

2 games(cricket) ^
games(basketball

3 $\forall a$: $\forall b$: play(a, b) ^
ill(a) → games(b

4 play(Saurav, volleyball)
fit(Saurav)

5 $\forall c$: play(Saurav, c) →
play(Kapil, c)

6 $\forall d$: fit(d) → ~ill(d)

7 $\forall e$: ~ill(e) → fit(e)

Conclusion :
likes(Sachin) Volleyb